## **FLEX HOSE GLOSSARY**

American National Standards Institution, Inc. A.N.S.I. American Society for Testing and Materials

A.S.T.M. A continuous sleeve of interwoven single or multiple strands of material. Usually textile or steel. **Braid** 

The pressure at which rupture occurs **Burst Pressure** 

The fabric, cord or metal reinforcing section of hose as distinguished from the tube or cover **Carcass** Continued deformation or movement under stress **Cold Flow** 

The deformation which remains in rubber after it has been subjected to, and released from, stress such **Compression Set** 

as a clamp. The longer the stress is maintained the more defrined the deformation

Hose with an exterior that is radially or heliacally grooved to enhance flexibility, strength or overall **Corrugated Hose** 

A device at the end of a length of hose that allows for a connection to be made. Coupling

This leakproof connection is achieved by fastening together the mating surfaces of two couplings **Coupling Joint** 

The outermost port of the hose. The main purpose for the hose cover is to protect the hose Cover

reinforcement from physical or environmental damage. Covers can componded to produce resistance to oils, ozone or abrasion

Any combination of letters and numbers to identify when the hose was manufactured Date code

An instrument for measuring the hardness of rubber **Durometer** 

A numerical value which indicates the resistance to indentation of the blunt probe of the durometer **Durometer Hardness** testing device

> A collar placed around a hose end to attach the fitting to the hose. The ferrule may be crimped or Ferrule swaged, forcing the hose against the shank of the coupling, or the shank may be expanded, forcing the

hose out against the ferrule or some combination

A wire or other reinforcement material spiraled or would around the cylindrical body of the hose Helix

A flexible conduit consisting of a tube, reinforcement and usually and outer cover Hose

A length of hose with a coupling attached ot one or both ends of the hose **Hose Assembly** 

> Inside diameter I.D. Iron Pipe Thread. Also known as N.P.T. (National Pipe Taper Thread) I.P.T.

An application of force in a manner that produces sudden strain or motion such as a pressure spike **Impulse** 

Media Any material being transported through a hose

American Standard Straight Pipe Thread for Free Mechanical Joints N.P.S.

Same as N.P.S. N.P.S.M.

> Outside Diameter O.D.

> > rings

The pressure at which the system functions. Aslo known as Working Pressure **Operating Pressure** 

> Pound per Square Inch P.S.I.

Pound per Square Inch Gauge P.S.I.G.

**Permanent Fitting** The type of fitting which cannot be removed

> Rubber Manufacturer's Association R.M.A.

The internal layer of the hose that gives it strength and shape. The hose working pressure is dependent Reinforcement

upon the type (or types) of reinforcement and amount used in the construction. Eg: Cord, wire, helical,

The type of fitting that can be removed from a hise and recoupled on another hose Reusable Fitting

A ratio used to establish the working pressure of a hose based upon burst pressure. Typically: 3:1 water, **Safety Factor** 4:1 Suspensions & slurries, 5:1 for steam

To remove or cut away a part of the hose cover exposing the reinforcement, to permit the attachment of Skive a coupling

**Tube** The inner most part of the hose layers that will be incontact with the media transported thought the hose. Usually rubber compounds or plactic blended to give the tube specific properties compatible with the

Unified National Thread(constant thread) U.N.

Unified National Course Thread U.N.C. Unified National Fine Thread U.N.F.

A material's resistance to flow under pressure, thickness **Viscosity** 

Working Pressure W.P.

The maximum pressure to which a hose assembly will be subjected, incuding pressure surges **Working Pressure** 

## selector table

			FE	ATUR					
PRODUCT	<b>Core</b> (1)	reinforcement	PSI	diam	length	service	applications	options	additions
Super Mining Flex	1/2"@ ≤12" 1"@≥12"	steel ring	200 or 300	4" to 30"	40 ft	suction & discharge	Pit & field or line pump suction hose. Booster pump lines in place of pipe. Dredge suction.	500 PSI, 300# flanges or rotating, SBR tube	reducing sizes, outlets, pressure taps, drains
Mining Flex	1/2"@ ≤12" 1"@≥12"	steel spring	200 300 500	4" to 60"	40 ft	suction & discharge	Matrix & tailing pump Replace multiple fittings and rigid pipe	300# flanges or rotating / SBR, neoprene, nitrile, hypalon, chlorobutyl, EPDM	reducing sizes, outlets, pressure taps, drains
Series 1000	optional	helical wire	150	4" to 24"	40 ft	suction & discharge	In-plant	300# flanges or rotating / SBR, neoprene, nitrile, hypalon, chlorobutyl, EPDM	reducing sizes, outlets, pressure taps, drains
Corrugated hose	1/2 inch gum rubber	helical wire	150	4.5" to 24"	10ft 20ft 40ft	suction & discharge	Discharge to sumps and settling tanks	other flanges	Nat rubber or neoprene wear tube
Series 8000	optional	spring steel	150	2" to 84"	24 inch	suction & discharge	Replace rigid pipe reduce pump vibration	300# flanges or rotating, lateral offsets / SBR, neoprene, nitrile, hypalon, chlorobutyl, EPDM	reducing sizes, eccentric design
Town-i-flex reducing hose	optional	spring steel	150	6" to 48"	20'	suction & discharge	Replace rigid pipe reduce pump vibration	300# flanges or rotating	reducing sizes, eccentric design
Series 9000	Towniprene 1/2 inch tube	spring steel	150	2" to 84"	24 inch	suction & discharge	Replace rigid pipe reduce pump vibration	300# flanges or rotating, lateral offsets	reducing sizes, eccentric design
Flotation hose	std	Polyester cord fabric	150	4" to 30"	40'	discharge	self-floating hose	300# flanges or rotating	300PSI optional
Town-I flex laterals & Tees	optional	spring steel	200- 600	Contact Townley	Contact Townley	suction & discharge	Replace rigid pipe	300# flanges or rotating	reducing sizes, outlets, pressure taps, drains